ADJUSTABLE VIDEO FREQUENCY RESPONSE FILTER FOR A SET-TOP TERMINAL

ABSTRACT OF THE DISCLOSURE

A system and method for adjusting a video frequency response of a set-top terminal using a video frequency response filter. The video frequency response filter is included in a video processing subsystem. The video frequency response filter adjusts the video frequency response of the set-top terminal by using a set of filter coefficients determined by a microprocessor subsystem. The set of filter coefficients can be determined by various methods. One method is by measuring the frequency response degradation of the set-top terminal without the video frequency response filter installed in the set-top terminal. Another method is to measure the amplitude of a color burst signal included in the video input signal. Yet another method is to measure the amplitudes of a multi-burst signal included in the video input signal. The invention compensates for imperfections in the set-top circuit components and enables the set-top terminal to consistently meet the specification requirements for channel flatness without increasing the cost of the components.

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